Solve the given system using substitution and/or elimination. Classify the system as having one solution, no solutions, or infinite solutions. Check your answer both algebraically and graphically.

$$\begin{cases} \dfrac{2}{3}x - \dfrac{1}{5}y &= 3 \\ \dfrac{1}{2}x + \dfrac{3}{4}y &= 1 \end{cases}$$

Exercise **1** *Classify this system as having one solution, no solutions, or infinite solutions.*

Multiple Choice:

(a) *one solution* ✓

(b) *no solutions*

(c) *infinite solutions*

Exercise **1.1** *The solution to this system is* $\left(\boxed{\dfrac{49}{12}}, \boxed{-\dfrac{25}{18}} \right)$.